









Comparison of VioStor NVR Series

Product Photo				
NVR Model	VS-12164U-RP/12156U-RP/12148U-RP/12140U-RP Pro	VS-8148U-RP/8140U-RP/8132U-RP/8124U-RP Pro	VS-8148/8140/8132/8124 Pro+	VS-6020/6016/6012 Pro
Operation System	Linux-embedded	Linux-embedded	Linux-embedded	Linux-embedded
Max. number of supported IP cameras/channels (recording)	64/56/48/40	48/40/32/24	48/40/32/24	20/16/12
Video server support	Yes	Yes	Yes	Yes
High-definition local display	Yes	Yes	Yes	---
Multi-server monitoring	Yes (up to 128 channels)	Yes (up to 128 channels)	Yes (up to 128 channels)	Yes (up to 128 channels)
Video compression (IP camera)	H.264, MPEG-4, M-JPEG & M-PEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & M-PEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & M-PEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & M-PEG (depending on the camera models)
Max. network throughput tested (1)	NA	360 Mbps	360 Mbps	176 Mbps
Megapixel recording	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)
Multi-view playback	16-view	16-view	16-view	16-view
Intelligent video analytics (IVA)	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion
Advanced event management	Yes	Yes	Yes	Yes
Max. number of hard drives supported (2)	12 x 3.5-inch SATA, 2.5-inch SATA, SSD	8 x 3.5-inch SATA, 2.5-inch SATA, SSD	8 x 3.5-inch SATA, 2.5-inch SATA, SSD	6 x 3.5-inch SATA, 2.5-inch SATA, SSD
Max. raw capacity	36TB (12 x 3TB hard drives)	24TB (8 x 3TB hard drives)	24TB (8 x 3TB hard drives)	18TB (6 x 3TB hard drives)
RAID	RAID 0, 1, 5, 5+hot spare, 6, 6+hot spare			
Processor	2nd Generation Intel® Core™ Processor Family	Intel® Core™ i3 3.3GHz	Intel® Core™ i3 3.3GHz	Dual-core Intel® Atom™
LCD panel	---	Yes	Yes	---
Number of Gigabit LAN ports	TBD	2	2	2
Number of USB ports	2 x USB 3.0 4 x USB 2.0	2 x USB 3.0 4 x USB 2.0	2 x USB 3.0 4 x USB 2.0	5 x USB 2.0
Redundant power supply	Yes	Yes	---	---
Hardware dimensions	88(H) x 439(W) x 520(D) mm 3.46(H) x 17.28(W) x 20.47(D) inch	88(H) x 439(W) x 520(D) mm 3.46(H) x 17.28(W) x 20.47(D) inch	217.5(H) x 327(W) x 321.2(D) mm 8.56(H) x 12.8(W) x 12.65(D) inch	175(H) x 257(W) x 235(D) mm 6.89(H) x 10.12(W) x 9.25(D) inch
Gross weight	22.92 kg / 50.53 lb	20.76 kg / 45.78 lb	13.98 kg / 30.79 lb	6.5 kg / 14.33 lb

Product Photo				
NVR Model	VS-4016U-RP/4012U-RP/4008U-RP Pro	VS-4016/4012/4008 Pro	VS-2012/2008/2004 Pro	VS-2008L/2004L
Operation System	Linux-embedded	Linux-embedded	Linux-embedded	Linux-embedded
Max. number of supported IP cameras/channels (recording)	16/12/8	16/12/8	12/8/4	8/4
Video server support	Yes	Yes	Yes	Yes
High-definition local display	Yes	Yes	Yes	---
Multi-server monitoring	Yes (up to 128 channels)	Yes (up to 128 channels)	Yes (up to 128 channels)	Yes (up to 128 channels)
Video compression (IP camera)	H.264, MPEG-4, M-JPEG & M-PEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & M-PEG (depending on the camera models)	H.264, MPEG-4, M-JPEG & M-PEG (depending on the camera models)	H.264, MPEG-4, M-JPEG (depending on the camera models)
Max. network throughput tested (1)	176 Mbps	176 Mbps	176 Mbps	28 Mbps
Megapixel recording	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes (up to 10-megapixel)	Yes
Multi-view playback	16-view	16-view	16-view	16-view
Intelligent video analytics (IVA)	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion	Motion detection, missing object, foreign object, out of focus, and camera occlusion
Advanced event management	Yes	Yes	Yes	Yes
Max. number of hard drives supported (2)	4 x 3.5-inch SATA, 2.5-inch SATA, SSD	4 x 3.5-inch SATA, 2.5-inch SATA, SSD	2 x 3.5-inch SATA, 2.5-inch SATA, SSD	2 x 3.5-inch SATA, 2.5-inch SATA, SSD
Max. raw capacity	12TB (4 x 3TB hard drives)	12TB (4 x 3TB hard drives)	6TB (2 x 3TB hard drives)	6TB (2 x 3TB hard drives)
RAID	RAID 0, 1, 5, 5+hot spare, 6			
Processor	Dual-core Intel® Atom™	Dual-core Intel® Atom™	Dual-core Intel® Atom™	Marvell 1.2 GHz
LCD panel	---	Yes	---	---
Number of Gigabit LAN ports	2	2	2	1
Number of USB ports	5 x USB 2.0	5 x USB 2.0	5 x USB 2.0	3 x USB 2.0
Redundant power supply	Yes	---	---	---
Hardware dimensions	44(H) x 439(W) x 499(D) mm 1.73(H) x 16.97(W) x 19.65(D) inch	177(H) x 480(W) x 235(D) mm 6.97(H) x 7.09(W) x 9.25(D) inch	150(H) x 102(W) x 216(D) mm 5.91(H) x 4.02(W) x 8.5(D) inch	165.5 (H) x 85 (W) x 218.4 (D) mm 6.52 (H) x 3.35 (W) x 8.60(D) inch
Gross weight	12.06 kg / 26.59 lb	4.65 kg / 10.24 lb	2.92 kg / 6.44 lb	1.9 kg / 4.19 lb

(1) Based on QNAP's laboratory tests. Actual performance may vary depending on the network environment.
(2) The standard system is shipped without hard disk drives.

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QNAP Central Management System

CMS Professional

- Comprehensive centralized management solution
- Support high-definition video surveillance and playback
- Intuitively and friendly user interface leads to effective operation
- Dynamically pump-up alarm image for real-time managing
- Turnkey solutions guarantee performance of integrated systems



Comprehensive CMS Features

The CMS Professional is QNAP's powerful centralized management system especially designed for medium-large video surveillance projects. It's an integrated solution combining hardware and software that allows system administrators to centrally manage, monitor, and playback according to different application requirements ranging from a single NVR to multiple, distributed NVRs. Some key features of CMS Professional support network-based real-time monitoring of multiple IP cameras, video recording, playback, efficient data search, and advanced system management. By adding NVR servers to CMS Professional, different IP cameras installed in different geographical locations can be monitored altogether within one single interface.

The CMS Professional real-time monitoring interface is very flexible as well as user friendly. User-defined camera views feature allows administrator to customize and manage onscreen views of different surveillance operators. Multi-layered electronic map (E-map) feature give users the ability to upload E-maps so as to indicate the exact locations of the IP cameras and the alarm devices. An instant alarm will be shown on the E-map to alert the users when an event occurs.

The CMS Professional reserves the capability for future expansion of the surveillance system installed. Multiple NVR servers can be added to the system at anytime and support up to 256 channels from more than 45 network camera brands and can be monitored collectively. In addition, the CMS client software offers a multilingual user interface, when installed on computer, remote monitoring from anywhere in the world is now possible. Pairing up CMS Profession along with QNAP NVR servers will bring the convenience of boundless surveillance and system management over the network.

Cloud Centralized Management Solution

- High compatibility with all QNAP VioStor NVR series
- Support SSL connection to secure remote access security

NVR VioStor



Intuitively and Friendly User Interface

- Support multi-screen display to optimize your operating efficiency
- Trouble-free VioStor NVR server configuration
- Flexible user defined live video monitoring layout
- Customizable E-maps to indicate the locations of the IP cameras
- Prompt event notification on monitoring screen
- Control PTZ speed dome camera and run preset point
- Powerful alarm list for real-time alarm image and event handling



High-definition Video Surveillance and Playback

- Compatible with more than 1,100 IP cameras and video servers from 47 popular brands
- Search video from multiple cameras/server simultaneously
- Synchronized playback of multiple cameras



Scalable Storage Management

- Storage units can be stacked and added to the system on demand to satisfy the highest level of data storage

TurboNAS



Comprehensive Event Management

- Flexible event handling setting
- Real-time event display
- Customizable E-maps to indicate the locations of the IP cameras
- Show live video by clicking on the camera icons
- Indicate the locations of the IP cameras when the alarm occurs

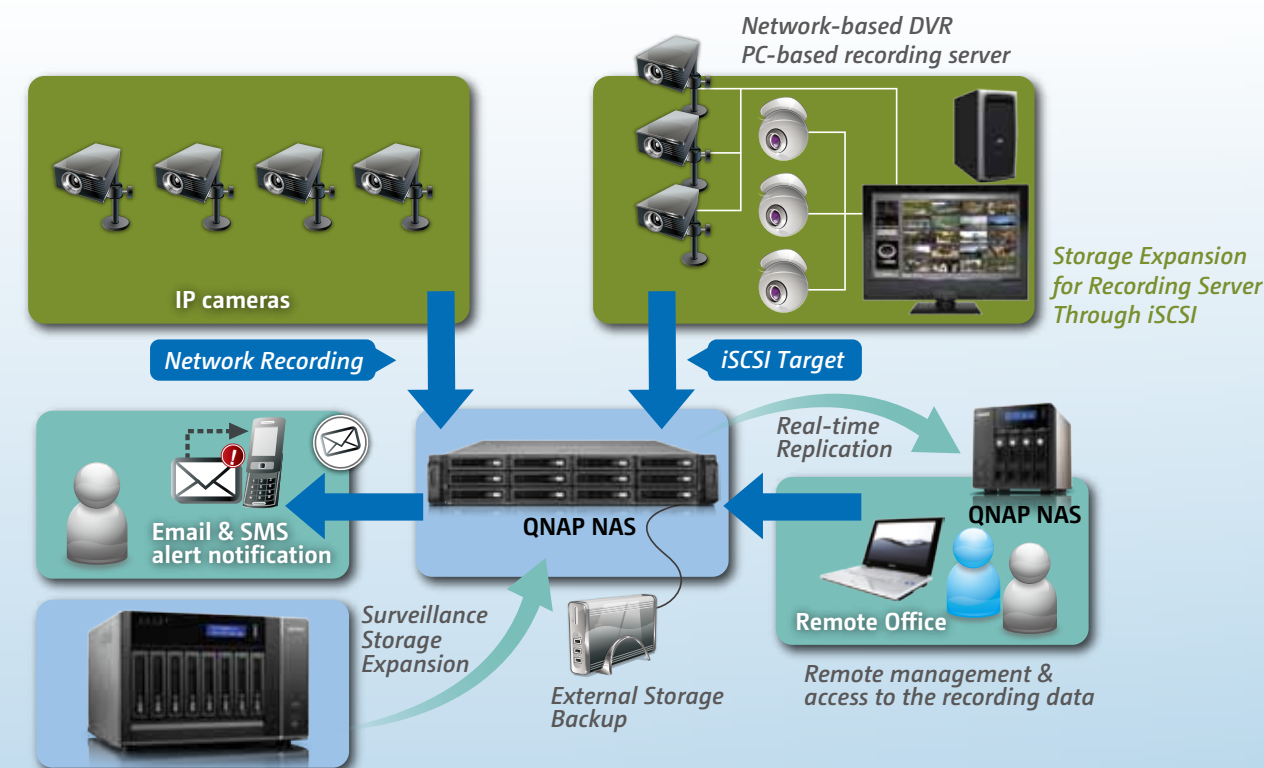


Industry-leading Turnkey Video Wall Solution (Optional)

- Turnkey solutions guarantee performance of integrated systems
- Real time dynamic control of display layout and content via remote control station



QNAP Network Attached Storage (NAS) Solution for Surveillance Applications



Solid, Powerful, and Reliable Storage Solution for Video Recording

Record IP Camera to QNAP NAS

- Surveillance Station for live audio and video monitoring, recording, and playback etc.
- Direct video recording from IP cameras



Event Alert and Security Control

- Email or SMS text alert
- Complete log system for secure access control



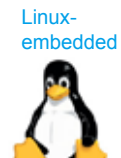
Storage Expansion for Video Recording

- iSCSI target for storage expansion of video recording server
- Real-time remote replication to back up new and modified files immediately to a remote NAS
- Surveillance storage expansion onto multiple Turbo NAS servers



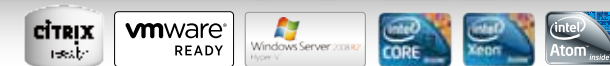
High Reliability and Smart Feature

- RAID 0, 1, 5, 6, 10, 5+hot spare, 6+hot spare, 10+hot spare, JBOD
- Online RAID capacity expansion & Online RAID level migration
- Dual Gigabit LAN for network fail-over or load-balancing
- Linux-embedded DOM-based architecture



TurboNAS

Total Storage Solution for Surveillance Applications



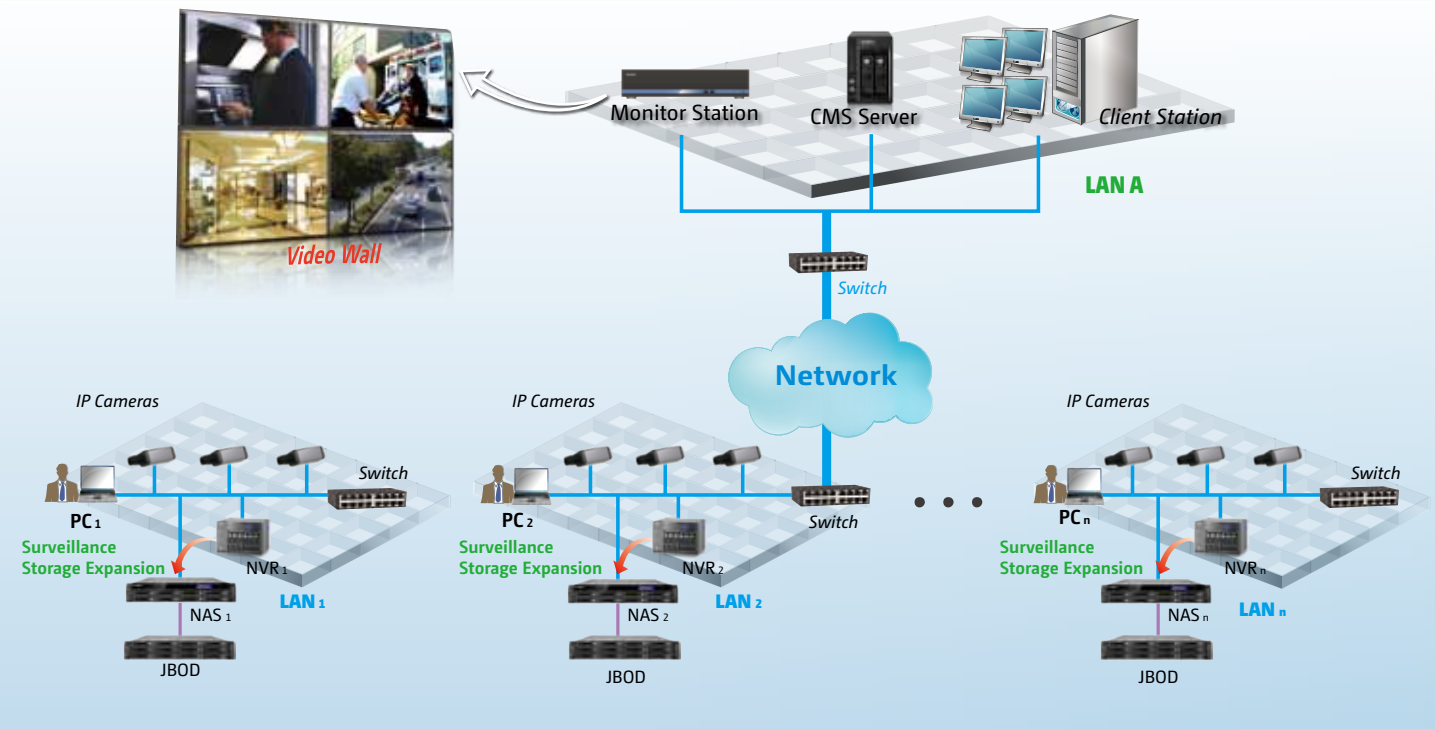
QNAP
SECURITY

Full Range Linux-embedded Network Surveillance System

CMS Professional, VioStor NVR, Turbo NAS



CMS



QNAP VioStor NVR

NVR Innovative Network Video Recorder
VS-12164U-RP/12156U-RP/12148U-RP/12140U-RP Pro
• 12-bay, 36TB, 2U chassis -channel
• 2nd generation Intel® TT processor family
• Redundant power supply available



NVR Innovative Network Video Recorder
VS-8148U-RP/8140U-RP/8132U-RP/8124U-RP Pro
• 8-bay, 24TB, 2U chassis, 48/40/32/24-channel
• Intel® Core™ 3.3GHz CPU, 2GB DDR3
• Redundant power supply available
• PC-less network surveillance by HD local display
• Max network throughput: 360 Mbps*



NVR Innovative Network Video Recorder
VS-8148/8140/8132/8124 Pro+
• 8-bay, 24TB, 48/40/32/24-channel
• Intel® Core™ 3.3GHz CPU, 2GB DDR3 memory
• PC-less network surveillance by HDMI or VGA local display
• High quality megapixel recording
• Max network throughput: 360 Mbps*



NVR Innovative Network Video Recorder
VS-6020/6016/6012 Pro
• 6-bay, 18TB, 20/16/12-channel
• Dual-core Intel® Atom™ CPU, 1GB memory
• PC-less network surveillance by HD local display
• High quality megapixel recording
• Max network throughput: 176 Mbps*



NVR Innovative Network Video Recorder
VS-4016U-RP/4012U-RP/4008U-RP Pro
• 4-bay, 12TB, 1U chassis, 16/12/8-channel
• Dual-core Intel® Atom™ CPU, 1GB memory
• Redundant power supply available
• PC-less network surveillance by HD local display
• High quality megapixel recording
• Max network throughput: 176 Mbps*



NVR Innovative Network Video Recorder
VS-4016/4012/4008 Pro
• 4-bay, 12TB, 16/12/8-channel
• Dual-core Intel® Atom™ CPU, 1GB memory
• PC-less network surveillance by HD local display
• High quality megapixel recording
• Max network throughput: 176 Mbps*
• Power-saving design, consumes only 35W



NVR Innovative Network Video Recorder
VS-2012/2008/2004 Pro
• 2-bay, 6TB, 12/8/4-channel
• Dual-core Intel® Atom™ CPU, 1GB memory
• PC-less network surveillance by HD local display
• High quality megapixel recording
• Max network throughput: 176 Mbps*
• Power-saving design, consumes only 25W



NVR Innovative Network Video Recorder
VS-2008L/2004L
• 2-bay, 6TB, 8/4-channel
• Marvell 1.2 GHz CPU, 256MB DDR2 memory
• Max network throughput: 28 Mbps*
• Power-saving design, consumes only 13W

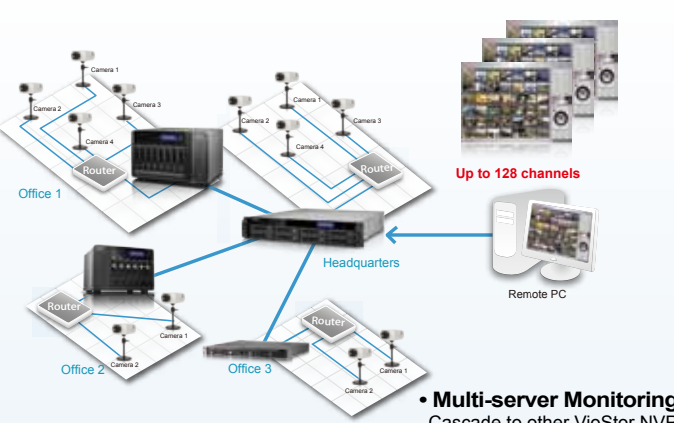


QNAP is a member of ONVIF and PSIA

* The standard system is shipped without hard drives.
* Based on QNAP's laboratory tests. Actual performance may vary depending on the network environment.

Powerful NVR Features

Real-time Remote Monitoring



• **Multi-server Monitoring**
Cascade to other VioStor NVR servers to monitor up to 128 IP cameras.

• **Diversified Remote Monitoring Modes**
– Multiple display modes
– Alarm recording (by multiple alarm events)
– Sequential display mode
– Dual display mode



• **E-map**
The VioStor NVR provides an E-map function for users to upload digital maps and indicate the locations of the IP cameras of a monitoring location or region.



• **Event Notification on Monitoring**
When alarm recording is enabled and an event occurs, an alarm icon is shown instantly on monitoring page. Click the icon to view the alert details.



• **Preset Position Control and Auto Cruising**
View different preset positions of the IP cameras and configure auto cruising settings on the VioStor NVR for periodic monitoring of the preset positions of the PTZ cameras.



• **Smart Control of PTZ & Speed Dome Cameras**
Adjust the PTZ cameras directly by the web-based and local display interface of the NVR.



• **Digital Zoom**
The VioStor NVR supports digital zoom for flexible monitoring and playback. It is a powerful function for megapixel IP cameras.



• **Video Snapshot**
The VioStor NVR provides real-time monitoring and snapshot. Users can take a snapshot of the monitoring screen anytime.

Mobile Surveillance

The VMobile app is a mobile surveillance application for users to monitor the IP cameras configured on the VioStor NVR remotely by iPhone, iPad, iPod touch, Android phones, or Windows PDA. The users will be notified by instant SMS when specified events are triggered at the monitored areas.



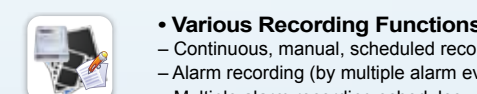
High-definition (HD) Local Display



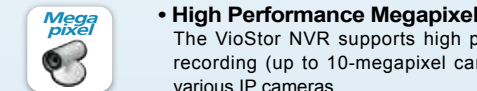
• **Intuitive Local Display Interface**
Configure the system, monitor the IP cameras and play the video conveniently via a USB mouse and a full HD (1920 x 1080) VGA monitor connected to VioStor NVR.
* For VioStor Pro series NVR only.

Most Complete Recording Functions

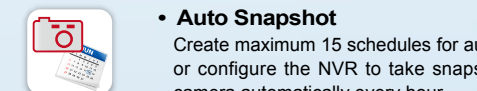
• **High Quality H.264, MPEG-4, M-JPEG, and MxPEG Recording**
Simultaneous multi-channel H.264, MPEG-4, M-JPEG, and MxPEG video recording of IP cameras.



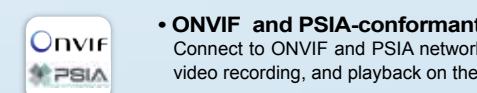
• **Various Recording Functions**
– Continuous, manual, scheduled recording
– Alarm recording (by multiple alarm events)
– Multiple alarm recording schedules
– Pre-alarm and post-alarm recording
– Audio recording



• **High Performance Megapixel Recording**
The VioStor NVR supports high performance megapixel recording (up to 10-megapixel cameras supported) from various IP cameras.

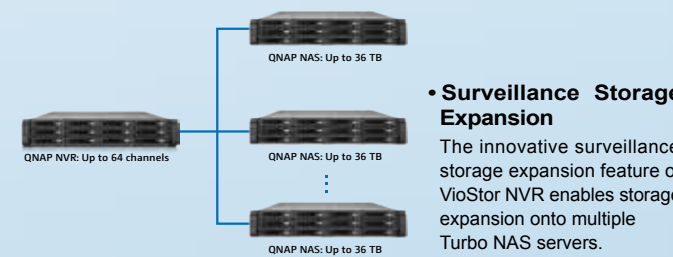


• **Auto Snapshot**
Create maximum 15 schedules for automatic snapshot taking or configure the NVR to take snapshots (max 60) of an IP camera automatically every hour.

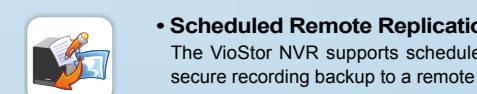


• **ONVIF and PSIA-conformant Cameras Support**
Connect to ONVIF and PSIA network devices for monitoring, video recording, and playback on the NVR.

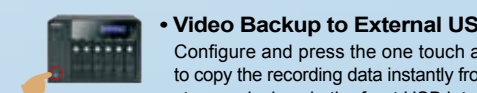
Convenient Backup Solution



• **Surveillance Storage Expansion**
The innovative surveillance storage expansion feature of VioStor NVR enables storage expansion onto multiple Turbo NAS servers.



• **Scheduled Remote Replication**
The VioStor NVR supports scheduled remote replication for secure recording backup to a remote NAS on LAN.



• **Video Backup to External USB Storage***
Configure and press the one touch auto video backup button to copy the recording data instantly from the NVR to an external storage device via the front USB interface.

* VS-12164U-RP/12156U-RP/12148U-RP/12140U-RP Pro & VS-8148U-RP/8140U-RP/8132U-RP/8124U-RP Pro do not support this feature.

Advanced Event Management

Advanced event management can be divided into two parts:



Events

The VioStor NVR supports different event types, including motion detection, alarm input, connection failure, recording failure, and user-defined event to trigger follow-up actions.



• **Motion Detection**
When the IP camera detects any movement, the defined actions will be activated.



• **Alarm Input**
When the VioStor NVR receives a signal from the IP camera's alarm input, the defined actions will be activated.



• **Connection Failure**
When the VioStor NVR fails to connect to the IP camera, the defined actions will be triggered.



• **Recording Failure**
When the VioStor NVR fails to record video due to hard drive failure or system crash, the defined actions will be triggered.



• **User-defined Event***
The VioStor NVR supports user-defined events. You enter the CGI command in the browser to trigger the event, and the defined actions will be activated.
* Enter the following URL in the browser to trigger the event: http://NVR_IP/cgi-bin/logical_input.cgi?name=User-defined Event Name

Actions

The NVR supports different actions when an event is triggered. These actions include multi-channel recording, adjusting the PTZ camera to the preset position, alarm output, built-in buzzer, email & SMS alert, and user-defined action.



• **Recording**
When an event is triggered, the VioStor NVR starts recording one or more channels at the same time.



• **Camera Control**
When an event occurs, the PTZ camera will be adjusted to the specified preset position for monitoring and recording. Use HTTP URL to activate further action.



• **Alarm Output**
When an event occurs, the alarm output from the IP cameras will trigger other alert systems, such as lighting system, auto phone dialing system, security system and so on.

* The VioStor NVR supports the alarm output of AXIS, Panasonic, SONY, ACTI, and VIVOTEK camera models.



• **SMS**
The VioStor NVR sends an SMS message to inform the specified recipients when an event occurs.



• **Email**
When an event occurs, the VioStor NVR sends an email with snapshot to notify the specified recipients.



• **Buzzer**
The buzzer in the VioStor NVR will sound when an event occurs.



• **User-defined Action**
The VioStor NVR supports user-defined actions. Enter the HTTP URL from other surveillance systems. When an alert occurs, the NVR will activate other systems, such as extinguishing system, electronic control system, and air-conditioning control system.

Playback Features

Multi-view Playback

Use the multi-view playback feature to divide a video equally into multiple sessions for playback in a multi-view window, or play the videos of multiple IP cameras in the multi-view window simultaneously.



Real-time Digital Watermarking

The VioStor NVR supports digital watermarking to protect the videos and snapshots from unauthorized modification.



Data Search by Date & Time, Timeline, Event, and Intelligent Video Analytics (IVA)

The VioStor NVR supports quick search of recording data by date and time, timeline, event, and intelligent video analytics (IVA), including motion detection, foreign object, missing object, out of focus, and camera occlusion.



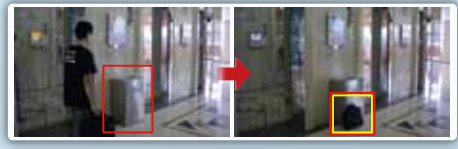
Motion Detection:

Detects movement in the video. The moving objects of the search area are highlighted in red brackets.



Foreign Object:

Detects a new object in the video. The foreign objects of the search area are highlighted in yellow brackets.



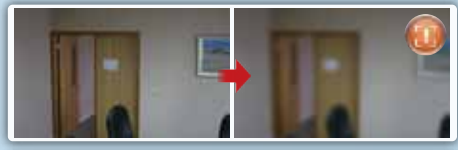
Missing Object:

Detects a missing object in the video. The missing objects of the search area are highlighted in yellow brackets.



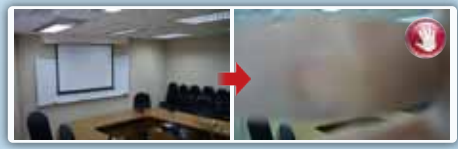
Out of Focus:

Detects if the IP camera is out of focus.



Camera Occlusion:

Detects if the IP camera is obstructed.



High Reliability and Smart Features



• **Intelligent Auto Power on after Power Recovery**
The VioStor NVR turns on automatically when the power recovers after an outage.



• **UPS Support for 24/7 Service**
The VioStor NVR supports APC, CyberPower, MGE, and YEC UPS devices to enable stable and continuous recording 24/7.



• **Advanced RAID Management**
The VioStor NVR supports RAID 0, 1, 5, 6, 5+hot spare, 6+hot spare, single, and JBOD disk configurations.
* The RAID levels supported depend on the NVR models and number of hard drives installed.



• **Online RAID Capacity Expansion**
The storage capacity of a RAID disk volume of the NVR can be expanded by replacing the hard drives with larger ones.



• **Online RAID Level Migration**
Upgrade the disk configuration of the NVR to a higher RAID level with the data retained. There is no need to turn off the server during the process.



• **S.M.A.R.T. & Advanced HDD Health Scanning (HHS)**
S.M.A.R.T. (Self-Monitoring Analysis and Reporting Technology) helps monitor the hard disk drives status. The VioStor NVR supports HHS (HDD Health Scan) for disk checking and bad blocks scanning.

NVR Software Specifications

Recording

Video Compression:
• H.264, MPEG-4, M-JPEG, MxPEG (options available depend on the IP cameras)

Recording Mode:
• Continuous, manual, and scheduled recording
• Alarm recording, multiple alarm recording schedule
• Pre-alarm and post-alarm recording
• Auto snapshot (scheduled or hourly snapshot)
• Real-time digital watermarking

Recording Performance: (*)
• Supports megapixel cameras
• Up to 30 fps at HD (720P) for each channel
* Actual performance may vary depending on the environment and individual settings.

File Format:
AVI (QNAP codec is required for playback)

Local Display: (*)
• 1, 4, 6, 8, 9, 10, 12-channel display, sequential display mode

Advanced Monitoring Features:
• Full screen display, event notification, PTZ control, and digital zoom

Local Playback:
• Single-view playback

Search Mode: By date & time, timeline, event, and intelligent video analytics (IVA)

Playback Control:
• Play, pause, stop, reverse play, play next/previous video file, and speed control

Advanced Playback Features:
• Full screen display, video snapshot, MGE, YEC (USB) control, and digital watermarking

Export:
• Multiple files export to an AVI file

Storage
Disk Management:
• Video files and snapshots can be accessed by Web File Manager (HTTP), FTP, or SMB/CIFS

Remote Monitoring

Multi-server Monitoring:
• Up to 128 channels monitoring from multiple VioStor NVR servers

Display Mode:
• 1, 4, 6, 8, 9, 10, 12, 16, 20, 25, 36, 42-channel display, sequential mode, dual display mode

Advanced Monitoring Features:
• Full screen display, video snapshot, manual recording, event notification, PTZ control, and digital zoom

E-map: Upload digital maps and indicate the locations of the IP cameras of a monitoring location or region.

Remote Playback
Search Mode:
• By date & time, timeline, event, and intelligent video analytics (IVA)

Intelligent Video Analytics (IVA):
• Motion detection, missing object, foreign object, out of focus, and camera occlusion

Playback Channel:
• Maximum 16-view playback from multiple NVR servers simultaneously

Display Mode:
• Play, pause, stop, reverse play, next/previous frame, next/previous video file, and speed control

Advanced Playback Features:
• Full screen display, video snapshot, MGE, YEC (USB) control, and digital watermarking

Export:
• Multiple files export to an AVI file

Storage
Disk Management:
• Video files and snapshots can be accessed by Web File Manager (HTTP), FTP, or SMB/CIFS

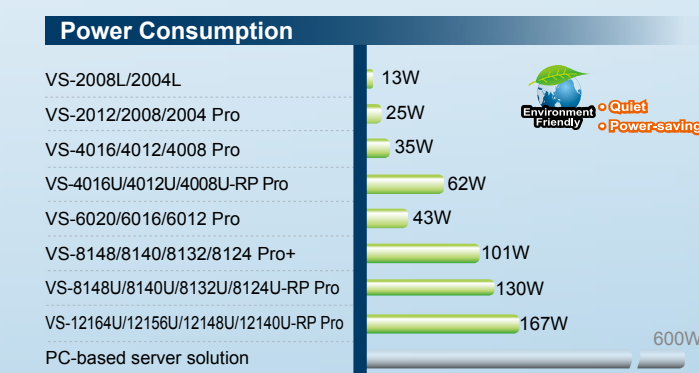
Network Services

• **Dual Gigabit LAN Ports for Failover, Load Balancing, or Multi-IP Settings***
* VS-2008L and VS-2004L support one Gigabit RJ-45 Ethernet port only.

- **Failover**
Failover allows the VioStor NVR to sustain the failure of one network port to provide continuous services.
- **Load Balancing**
Bandwidth aggregation is supported to boost the file transfer speed (works with managed Ethernet switch with 802.3ad configured).
- **Multi-IP Settings**
Two IP settings can be configured on the NVR to allow network access from two different subnets.

Green NVR Solution

The Linux-based VioStor NVR is more power-saving than PC-based surveillance solutions.



• Single disk, RAID 0, RAID 1, RAID 5, RAID 5+hot spare, RAID 6, RAID 6 + hot spare, and JBOD (*)
• Online RAID capacity expansion and online RAID level migration
• Hard disk S.M.A.R.T. and bad blocks scanning
LCD Panel: (*)
• PC-less RAID configuration for the first-time setup
• System and disk information checking, system shutdown and reboot, etc.

Network Support:
• HTTP, TCP/IP, SMTP, DHCP, Static IP, DNS, DDNS, FTP, and NTP

Dual Gigabit LAN: (*)
• Failover, load-balancing, multi-IP settings

Security Control
Access Right Management:
• Multiple accounts creation with different rights of monitoring, playback, PTZ control, and audio monitoring

Host Access Control: Control of allowed and denied access to the NVR

Auto Logout: Automatic user logout from idling configuration pages

Online Users List: Logon status display of active users and logon history

UPS: APC, CyberPower, MGE, YEC (USB)

Event Logs: Detailed event logs

Languages
Czech, Danish, Dutch, English, French, Finnish, German, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish, Simplified Chinese, Traditional Chinese, Turkish

Client PC Requirements
(Suggested system requirements)
Operation System: Microsoft Windows 7, Vista, or XP
Web Browser: Internet Explorer 6.0 or later (32-bit)
Network Interface: 10/100/1000 Mbps
Display Resolution:
• Suggested 1024 x 768 pixels or above
* For higher surveillance performance, please select more advanced PC models.

(*) Features may vary by model
(*) VioStor Pro NVR series only
(*) LCD-equipped models only
(*) Dual LAN models only